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| Application/ | Control | No. |
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10/811,963 Examiner

Patrick Miller

Applicant(s)/Patent under Reexamination

KAWAJI ET AL. Art Unit

2837

| <b>√</b> | Rejected |
|----------|----------|
| =        | Allowed  |

| 1 | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| + | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| 1 | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

|               |  |          |                   |            | _        |          | ,  | '                | _   |                  |
|---------------|--|----------|-------------------|------------|----------|----------|--|------------------|---|------------------|
| Cla           | im                                     |          |                   |            |          | Date     |  |                  |   |                  |
| Final         | Original                               | 12/21/05 |                   |            |          |          |  |                  |   |                  |
| 1             | 1                                      | =        |                   | -          |          |          |  |                  |   | -                |
| 2             | 2                                      | Ī        |                   |            |          |          |  |                  |   |                  |
| ┝╼┈           | 3                                      | $\vdash$ |                   | _          | -        | _        |  |                  |   | $\neg$           |
| 3             | 4                                      | ī        | -                 | -          |          |          |  |                  |   |                  |
| 4             | 1<br>2<br>3<br>4<br>5                  | -        |                   |            |          |          |  |                  |   | _                |
| <u>4</u><br>5 | 6                                      | =        | _                 |            |          |          | _  |                  |   |                  |
|               | 7                                      | =        |                   |            |          |          | -  |                  |   | _                |
| <u>6</u>      | 8                                      | =        |                   |            | _        |          | _  |                  | $\neg$  |                  |
| 8             | 8                                      | =        | _                 | Н          |          |          |  |                  |   |                  |
| 9             |  | =        |                   |            |          |          |  |                  |   |                  |
|               | 11                                     |          |                   | Г          |          |          |  |                  |   |                  |
|               | 12                                     |          |                   | $\Box$     |          |          |  |                  | $\Box$  |                  |
|               | 10<br>11<br>12<br>13<br>14<br>15<br>16 | П        |                   | $\Box$     |          |          |  |                  |   |                  |
|               | 14                                     |          |                   | П          |          |          |  |                  | П   |                  |
|               | 15                                     |          |                   | Г          |          |          |  |                  |   |                  |
|               | 16                                     |          |                   |            |          |          |  |                  |   |                  |
|               | 17                                     |          |                   | Г          |          |          |  |                  |   |                  |
|               | 18                                     |          |                   | Г          | Г        |          |  |                  |   |                  |
|               | 18<br>19                               |          |                   |            |          |          |  |                  |   |                  |
|               | 20                                     |          |                   | Г          |          |          | Г  |                  |   |                  |
|               | 21                                     |          |                   |            |          |          |  |                  |   |                  |
|               | 20<br>21<br>22                         |          |                   |            |          |          |  |                  |   |                  |
|               | 23                                     |          |                   |            |          |          |  |                  |   |                  |
|               | 23<br>24<br>25                         |          |                   |            |          |          | Г  |                  |   |                  |
|               | 25                                     |          |                   |            |          | Г        |  |                  |   |                  |
|               | 26                                     |          |                   | Г          |          |          |  |                  |   |                  |
|               | 26<br>27<br>28<br>29<br>30             |          |                   |            |          |          |  |                  |   |                  |
|               | 28                                     |          |                   |            |          |          |  |                  |   |                  |
|               | 29                                     | Г        |                   |            |          |          |  |                  |   |                  |
|               | 30                                     |          |                   |            |          |          |  |                  |   |                  |
|               | 31                                     |          |                   |            |          |          |  |                  |   |                  |
|               | 32                                     |          |                   |            |          |          |  |                  |   |                  |
|               | 33                                     |          |                   |            |          |          |  |                  |   |                  |
|               | 34<br>35                               | L        |                   |            |          |          |  |                  |   |                  |
|               | 35                                     |          |                   |            |          |          |  |                  |   |                  |
|               | 36                                     |          |                   |            | 匚        |          |  |                  |   |                  |
|               | 37                                     |          |                   |            |          |          | L  |                  |   |                  |
|               | 38                                     | 匚        |                   | 匚          |          | Ĺ        | 匚  | 匚                |   |                  |
|               | 39                                     |          | Ĺ                 | $\Box$     |          |          | _  | $ldsymbol{oxed}$ |   | $\Box$           |
|               | 40                                     |          |                   |            | _        | <u> </u> |  | <u> </u>         |   | Ш                |
|               | 41                                     | <u> </u> | L                 | 乚          |          |          |  |                  | $ldsymbol{le}}}}}}$ |                  |
|               | 42                                     | <u> </u> | $\vdash$          | $\perp$    | oxdot    | <u> </u> |  | <u> </u>         | <u>L</u>  | Ш                |
|               | 43                                     |          |                   | <u>L</u>   | L_       |          |  |                  |   | _                |
| L             | 44                                     |          |                   |            |          |          | <u>.                                    </u> |                  | $ldsymbol{oxed}$  | _                |
| L             | 45                                     | $\perp$  | _                 | <u> </u>   |          | _        | $oxed{\Box}$                                 | ட                | $ldsymbol{oxed}$  | $ldsymbol{oxed}$ |
|               | 46                                     | 丄        | _                 | <u> </u>   | <u></u>  | L        |  | <u> </u>         | <u> </u>  | Ŀ                |
|               | 47                                     | L        | $ldsymbol{oxed}$  |            | <u> </u> |          | <u> </u>                                     | _                | <u> </u>  | _                |
| L             | 48                                     | _        | <u> </u>          | <u>L</u>   |          | L        | _  |                  | <u> </u>  | L_               |
|               | 49                                     |          | $ldsymbol{f eta}$ | otacluster | $\vdash$ | L        | _  | <u> </u>         | <u> </u>  | <u> </u>         |
|               |  |          |                   |            |          | 1 -      |  |                  |   | _                |

| Cla      | im       |          |          | _        |          | Date     | <del>-</del> |   |          |   |
|----------|----------|----------|----------|----------|----------|----------|--------------|---|----------|---|
|          |          |          |          |          |          |          |              |   |          |   |
| Final    | Original |          |          |          |          |          |              |   |          |   |
|          | 51       |          | _        |          | _        | _        | $\dashv$     |   | _        |   |
|          | 52       | -        | $\dashv$ | _        | _        | -        | -            |   | -        | _ |
| $\vdash$ | 52       | $\dashv$ | _        | _        | $\dashv$ |          |              |   |          |   |
|          | 53       |          |          |          | $\Box$   |          |              | _ | Ш        |   |
|          | 54       |          |          |          |          |          |              |   |          |   |
|          | 54<br>55 |          |          |          |          |          |              |   |          |   |
|          | 56       |          |          |          |          |          |              |   |          |   |
|          | 57       |          |          |          |          |          |              |   |          |   |
|          | 58       |          |          |          |          |          |              |   |          |   |
|          | 59       |          |          |          |          |          |              |   |          |   |
|          | 60       |          |          |          |          |          |              |   |          |   |
|          | 61       |          | _        | _        | _        |          |              |   |          |   |
|          | 62       | П        |          |          |          |          | Н            |   |          |   |
| 1        | 63       |          |          |          | $\vdash$ |          | Н            |   |          |   |
| $\vdash$ | 64       | $\vdash$ |          | $\vdash$ |          | -        | Н            |   |          |   |
| $\vdash$ | 65       | $\vdash$ |          | $\vdash$ | $\vdash$ | $\vdash$ | Н            |   |          |   |
|          | 66       | _        | _        | _        |          |          | $\vdash$     |   | $\vdash$ |   |
|          | 67       |          |          | _        |          | -        |              | _ | $\vdash$ | _ |
| $\vdash$ | 68       | Н        |          |          |          |          | Н            |   | $\vdash$ | - |
|          | 69       |          |          | $\vdash$ |          | _        |              |   | -        |   |
|          | 70       | -        | _        |          | $\vdash$ | -        |              |   |          |   |
| <b>—</b> | 71       | $\vdash$ | _        | $\vdash$ | _        |          | -            |   |          |   |
|          | 72       |          |          |          | _        | _        |              |   | H        |   |
|          | 73       | _        |          | -        |          | -        |              |   | H        | _ |
|          | 74       |          |          |          |          |          |              |   |          | - |
| <b></b>  | 75       |          |          | _        | -        | _        |              |   |          | _ |
|          | 76       |          |          |          |          | _        |              |   |          |   |
|          | 76<br>77 |          |          |          |          |          |              |   |          |   |
|          | 78       |          |          |          |          |          |              |   | П        |   |
|          | 79       |          |          |          |          |          |              |   |          |   |
|          | 80       |          |          |          |          |          |              |   |          |   |
|          | 81       |          |          |          |          |          |              |   | П        |   |
|          | 82       |          |          |          | Г        |          |              |   |          |   |
|          | 83       |          |          |          |          |          |              |   |          |   |
|          | 84       |          |          | Г        |          |          |              |   |          |   |
|          | 85       |          |          |          |          |          |              |   |          |   |
|          | 86       | $\Box$   |          |          | Г        |          |              |   |          |   |
|          | 87       |          |          |          | Г        |          |              |   | П        |   |
|          | 88       |          | $\Box$   |          | Г        |          |              |   |          |   |
|          | 89       |          |          |          |          |          |              |   |          |   |
|          | 90       | П        | $\Box$   |          |          | Г        |              |   |          |   |
|          | 91       |          |          |          |          | $\Box$   |              |   |          |   |
|          | 92       | <u> </u> | Г        | Γ        |          |          |              |   |          |   |
|          | 93       |          |          | Π        | Г        |          |              |   | Π        | Г |
|          | 94       | Г        |          | Π        | Г        |          | Π            |   |          |   |
|          | 95       | Г        | Г        | $\sqcap$ |          | Π        | Г            |   |          |   |
|          | 96       |          |          | Г        |          | П        | Γ_           |   |          | Г |
|          | 97       |          | Г        | Г        |          | Γ        |              |   | П        |   |
|          | 98       | П        |          |          | П        |          |              |   |          |   |
|          | 99       |          |          |          |          |          |              |   |          |   |

| Cli  | aim  |          |          |  |          | ate      |          |          |              |           |
|--|--|----------|----------|--|----------|----------|----------|----------|--------------|-----------|
|  |  |          |          |  |          |          |          |          | 1            |           |
| Final  | Original   |          |          |  |          |          |          |          |              |           |
|  | 101  |          |          | Ħ  |          |          |          |          |              | $\neg$    |
|  | 101<br>102   |          |          |  |          |          |          |          |              | $\neg$    |
|  | 103  |          |          |  |          |          |          |          |              |           |
|  | 104<br>105   |          |          |  |          |          |          |          |              |           |
|  | 105  |          |          |  |          |          |          |          |              |           |
|  | 106  |          |          |  |          |          |          |          |              | Ш         |
|  | 107  | Ш        |          |  |          |          |          | Ш        |              | Щ         |
|  | 108<br>109<br>110                                    |          |          |  |          |          |          |          | Ш            |           |
|  | 109  | _        |          |  |          |          |          |          | Ш            | _         |
|  | 110  | Ш        |          |  |          | _        | _        | _        | ш            |           |
|  | 111  | $\vdash$ |          | <u> </u>   |          | _        | $\vdash$ | Н        | Н            | $\dashv$  |
|  | 112  | Н        | _        | <del>                                     </del> | -        | _        | Н        | $\vdash$ | Н            |           |
|  | 113  | $\vdash$ |          | H  |          | -        | Н        | Н        | $\vdash$     | $\dashv$  |
|  | 115  | $\vdash$ |          | H  |          | -        | H        | Н        |              | $\dashv$  |
|  | 112<br>113<br>114<br>115<br>116<br>117<br>118        | $\vdash$ |          | $\vdash$   | Н        | $\vdash$ | H        | $\vdash$ | $\vdash$     | $\dashv$  |
|  | 117  | Н        | _        | Н  | -        |          | H        |          | Н            | $\vdash$  |
|  | 118  |          |          |  | -        |          |          | _        |              | $\neg$    |
|  | 1119   |          |          |  | _        |          | $\vdash$ | _        | П            | $\exists$ |
|  | 120  |          |          |  |          |          |          |          |              |           |
|  | 121  |          | _        |  |          |          |          |          |              |           |
|  | 122  |          |          |  |          |          |          |          |              |           |
|  | 120<br>121<br>122<br>123<br>124<br>125<br>126<br>127 |          |          |  |          |          |          |          |              |           |
|  | 124  |          |          |  |          |          |          |          |              |           |
|  | 125  |          |          |  |          |          |          |          |              |           |
|  | 126  |          |          | _  | _        |          | L.       |          |              | Ш         |
|  | 127  | Ш        |          | <u> </u>   |          | _        | _        | _        |              |           |
|  | 128  |          | _        | _  |          | _        | _        | ļ        |              |           |
| L  | 128<br>129<br>130                                    | _        | _        | <u> </u>   |          | _        | _        | _        | _            | $\vdash$  |
|  | 130  | _        |          | <u> </u>   |          | <u> </u> |          | _        | _            | H         |
|  | 131<br>132   | _        |          | _  |          | ├-       |          | -        | $\vdash$     | Н         |
| _  | 132  | $\vdash$ | _        | -  | ┝        | ⊢        | _        | -        | $\vdash$     | Н         |
|  | 133<br>134   | $\vdash$ | -        | -  | $\vdash$ | $\vdash$ |          | -        | -            | Н         |
|  | 135  | $\vdash$ |          | $\vdash$   | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$ |              | $\vdash$  |
| <u> </u>   | 136  | $\vdash$ | H        | $\vdash$   | -        | ┢        | $\vdash$ |          | <del> </del> | Н         |
| -  | 137  | _        |          | $\vdash$   | $\vdash$ | $\vdash$ | T        |          | $\vdash$     | $\vdash$  |
|  | 138  |          | Т        | Г  | Г        | $\vdash$ | T        |          |              |           |
|  | 139  |          |          | Γ  |          |          | Π        |          |              |           |
|  | 139<br>140   |          |          |  |          |          |          |          |              |           |
|  | 141  |          |          |  |          |          |          |          |              |           |
|  | 142  |          |          |  |          |          | 匚        |          |              |           |
|  | 143  |          |          |  |          | $\Box$   |          | 匚        | _            | $\square$ |
|  | 144  |          |          | 匚  |          |          | <u> </u> | $\vdash$ | _            | L.        |
|  | 145  | <u> </u> | <u> </u> | $oxed{oxed}$                                     | $\vdash$ | L        | _        |          | <u> </u>     |           |
|  | 146  | <u></u>  | L        | <u> </u>   | <u> </u> | <u> </u> | _        | ļ        | _            | Ш         |
| $ldsymbol{ld}}}}}}$ | 147  | _        | <u> </u> | <u> </u>   | <u> </u> | _        | <u> </u> | <b> </b> | _            | <u> </u>  |
| <u> </u>   | 148  | _        | L        | <u> </u>   | _        | <u> </u> | Ь        | <b> </b> | <u> </u>     | _         |
| <u> </u>   | 149  |          | <u> </u> | <u> </u>   | <u> </u> | _        | ₩        | <b>—</b> | <b>—</b>     | $\vdash$  |
|  | 150  |          |          |  | L .      | <u>L</u> | <u> </u> | l        | <u> </u>     |           |